

1 ABSTRACT
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5 A motor suitable for use in a medical imaging environment has (a) a centrally
6 located means for actuating a radial wave, (b) a deformable flexspline having an inner
7 surface and a toothed outer surface, with the flexspline coaxially aligned with the
8 central axis of the radial wave actuating means and oriented such that the flexspline
9 inner surface is proximate the outer boundary surface of the actuation means, and
10 with the flexspline toothed outer surface having a first specified number of teeth, and
11 (c) a circular spline having a toothed inner surface, this spline having an outer
12 boundary surface and being coaxially aligned with the central axis and oriented such
13 that the spline toothed inner surface is proximate the flexspline's toothed outer
14 surface, with the spline inner surface having a second specified number of teeth which
15 is different than the first specified number of teeth in the flexspline, wherein the
16 actuation means is operable so that the action of its radial wave causes at least one of
17 the flexspline teeth to engage at a point the toothed side of the circular spline in such
18 a manner that an engagement point passes as a wave around the inner perimeter of the
19 circular spine, with the movement of this engagement point causing the flexspline to
20 rotate around its central axis.

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